



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,257	09/09/2003	Young Dae Kim	YHK-0117	4025
34610	7590	03/24/2006	EXAMINER	
FLESHNER & KIM, LLP P.O. BOX 221200 CHANTILLY, VA 20153			GUHARAY, KARABI	
			ART UNIT	PAPER NUMBER
			2879	
DATE MAILED: 03/24/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/657,257

Applicant(s)

KIM, YOUNG DAE

Examiner

Karabi Guharay

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1 and 11-18 is/are rejected.
- 7) ☒ Claim(s) 2-10 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>11/1/04</u> . | 6) <input type="checkbox"/> Other: ____. |

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

The disclosure is objected to because of the following informalities:

- (1) On page 2, line 2, "substrate 10 " should be changed to "substrate 1".
- (2) On page 7, line 2, "cannot a picture" should be changed to "cannot display a picture".
- (3) On page 10, line 27, "Fig 1 to Fig 3" should be changed to "Fig 9 to Fig 10".

Appropriate corrections are required.

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

Claims 1 & 11 are objected to because of the following informalities: Claims 1 & 11 recite "sustain electrode pair". Sustain electrode pair means two sustain electrodes, however, specification or drawings indicate sustain electrode pair is basically pair of one sustain electrode and one scan electrode. Appropriate correction is required.

Claims 13 & 14 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 13 recites

Art Unit: 2879

the limitation, which is recited in claim 11 from which it depends, thus not further limiting.

Claim 14 includes limitations of claim 11 and 12 and 13, which recites the limitations of claim 14 already, thus claim 14 is not further limiting.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 15-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 15-17 recite the limitation "said transparent electrode".

As there is no earlier recitation of "transparent electrode" in the claim, it is unclear as to what element the limitation is referring. There is insufficient antecedent basis for this limitation in the claim.

Further claim 15 recites transparent electrode formed from non-conductive metal.

However, non-conductive metals are not electrically conductive, in such a situation it is not clear how one can make an electrode with such non-conductive material.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

Art Unit: 2879

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,11-14,16,18 are rejected under 35 U.S.C. 102(b) as being anticipated by Marcotte (US 6118214).

Regarding claim 1, Marcotte discloses a plasma display having an active area (area between two outer most barrier rib 16, where phosphors RGB are located (see Fig 3) on which a picture is displayed and a non-display area positioned outside the display area wherein the dummy electrodes (extension of sustain electrode 52 and 54, and 60 & 62 of Fig 4) positioned within non-display area have a different gap between electrodes from sustain electrode pair (distance between extension of 52 and 54 is different from the gap between 52 and 54, see Fig 4).

Regarding claim 11, Marcotte discloses a plasma display having an active area (area between two outer most barrier rib 16, where phosphors RGB are located (see Fig 3) on which a picture is displayed and a non-display area positioned outside the display area wherein the dummy electrodes (extension of sustain electrode 52 and 54, and 60 & 62 of Fig 4) positioned within non-display area have a different electrode width from sustain electrode pairs positioned within the display region (Fig 4).

Regarding claims 12 & 14, Marcotte discloses that the dummy electrodes (extensions of sustain electrodes 52, 54) have a narrower electrode width than the sustain electrode pair (52 & 54).

Regarding claim 13, Morcotte discloses that the dummy electrodes (extensions of sustain electrodes 52, 54) have a different width than the sustain electrode pair (52 & 54).

Regarding claim 16, Marcotte discloses that the sustain electrodes are transparent and made of conductive metal (lines 5-9 & 38-40 of column 3).

Regarding claim 18, Marcotte discloses a plasma display having an active area (area between two outer most barrier rib 16, where phosphors RGB are located (see Fig 3) on which a picture is displayed and a non-display area positioned outside the display area wherein the dummy electrodes (extension of sustain electrode 52 and 54, and 60 & 62 of Fig 4) positioned within non-display area include metal electrode (Fig 4, lines 26-40 of column 3).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Marcotte (US 6118214).

Regarding claim 17, Marcotte discloses all the limitations of claim 17, except for transparent electrode is made of resin. However, it is well known that transparent electrodes can be formed of conductive resin.

Thus it would have been obvious to one having ordinary skill in the art at the time the invention was made to use conductive resin as the material for the transparent electrode since selection of known material for known purposes is within the skill of art.

Allowable Subject Matter

Claims 2-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 2, the prior art of record neither shows nor suggests a plasma display comprising the limitation of gap between dummy electrodes is narrower than that of the sustain electrode pairs

Other Prior Art Cited

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure :

Marcotte (US 5852347); Kim et al. (US 20040021653); Kim et al. (US 20020175631).

Nishikawa (US 4550998) teaches transparent electrode made of resin.

JP (3-167590); teaches that transparent electrode is made of conductive resin.

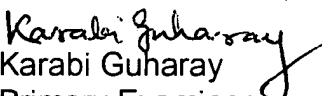
Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karabi Guharay whose telephone number is (571) 272-2452. The examiner can normally be reached on Monday-Friday 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization is (571) 273-8300

Art Unit: 2879

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Karabi Guharay
Primary Examiner
Art Unit 2879